

BIOGRAPHICAL DATA

George L. Siscoe

Personal

Birth: June 13, 1937, Lansing, Michigan

Marital Status: Married

Citizenship: United States

Education

B.S., MIT (1960)

Ph.D. MIT (1964)

Positions

Cal Tech, Post Doctoral Fellow, 1964-1966

MIT, Assistant Professor of Physics, 1966-1968

UCLA, Associate to Full Professor of Atmospheric Physics, 1968-1993

Emeritus Professor UCLA 1993

Boston University Research Professor 1993-Present

Phillips Laboratory Visiting Research Scholar 1990-1991 and 1993-1994

Professional Societies

American Association for the Advancement of Science

American Geophysical Union

American Meteorological Society

European Geophysical Society

Honors

Fellow, American Geophysical Union since 1987

2nd Van Allen Lecturer, AGU, 1991

Professional Activities

Associate Editor, Journal of Geophysical Research 1971-1973

Associate Editor, Reviews of Geophysics and Space Physics 1972-1974

Editor, Journal of Geophysical Research, 1978-1981

Member, Advisory Committee for Atmospheric Sciences, NSF, 1978-1981

Member, Committee on Planetary and Lunar Exploration, NRC, 1981-1983

Chair, Department of Atmospheric Sciences, UCLA, 1983-1988 and 1991-1993

Chair, Panel on Long-Term Solar-Terrestrial Observations, NRC, 1985-1987

Chair, Scientific Programs Evaluation Committee, NCAR, 1986-1987

Member, Space Studies Board, NRC, 1987-1989 and 1997-2000

Member, Bowie Medal Selection Committee, AGU, 1987-1989

Chair, Division III (Magnetospheres) of IAGA, 1987-1991

Chair, Steering Committee for Geospace Environment Modeling Program, NSF, 1988-1991

Chair, Space Physics Advisory Committee, NASA, 1989-1991

Member, Space Science and Applications Advisory Committee, NASA, 1989-1991

Acting Director, Center for the Evolution and Origin of Life, UCLA, 1989

Chair, External Review Committee, Department of Atmosphere, Ocean, and Space Science, University of Michigan, 1989

Member, Geophysics Laboratory Advisory Board, 1990-1992

Chair, Fleming Medal Subcommittee, AGU, 1992-1994

Member, Fellows Committee, AGU, 1992-1994

Member, Visiting Committee of the Space Sciences Directorate, NASA/GSFC, 1992-1993, Chair, 1994

Member AGU panel on Role of Government in Geophysical Research, 1996
 Member, UCAR Advisory Panel for the National Centers for Environmental Predictions, 1996-1999
 Member, NASA Space Physics Roadmap Committee; 1996-1997
 Chair, GGCM Steering Committee, NSF/GEM, 1997-2000
 Chair, Committee on Space and Solar Physics (CSSP), NRC, 1997-2000

Research Interests: Space physics including solar wind, magnetospheres, and space weather.

PUBLICATIONS

1. Levy, R. H., H. E. Petschek and G. L. Siscoe: Aerodynamic aspects of magnetospheric flow, *AIAA J.*, 2, 2065-2076, 1964.
2. Axford, W. I., H. E. Petschek and G. L. Siscoe: Tail of the magnetosphere, *J. Geophys. Res.*, 65, 1231, 1965.
3. Siscoe, G. L.: A unified treatment of magnetospheric dynamics, *Planet. Space Sci.*, 14, 947-967, 1966.
4. Siscoe, G. L., L. Davis, Jr., E. J. Smith, P. J. Coleman, Jr., and D. E. Jones: Magnetic fluctuations in the magnetosheath: Mariner 4, *J. Geophys. Res.*, 72, 1, 1967.
5. Siscoe, G. L., L. Davis, Jr., P. J. Coleman, Jr., E. J. Smith and D. E. Jones: Shock-aligned magnetic oscillations in the magnetosheath: Mariner 4, *J. Geophys. Res.*, 72, 5524, 1967.
6. Siscoe, G. L., L. Davis, Jr., P. J. Coleman, Jr., E. J. Smith and D. E. Jones: Power spectra and discontinuities of the interplanetary magnetic field: Mariner 4, *J. Geophys. Res.*, 73, 61, 1968.
7. Olbert, S., G. L. Siscoe and V. M. Vasyliunas: A simple derivation of the Dessler-Parker-Sckopke relation, *J. Geophys. Res.*, 73, 1115, 1968.
8. Lazarus, A. J., G. L. Siscoe and N. F. Ness: Plasma and magnetic field observations during the magnetosphere passage of Pioneer 7, *J. Geophys. Res.*, 73, 2399, 1968.
9. Siscoe, G. L., V. Formisano, and A. J. Lazarus: Relation between geomagnetic sudden impulses and solar wind pressure changes--an experimental investigation, *J. Geophys. Res.*, 73, 4869, 1968.
10. Siscoe, G. L.: Resonant compressional waves in the geomagnetic tail, *J. Geophys. Res.*, 74, 6482, 1969.
11. Siscoe, G. L., and L. T. Finley: Meridional (north-south) motions of the solar wind, *Solar Phys.*, 9, 452, 1969.
12. Siscoe, G. L., and W. D. Cummings: On the cause of geomagnetic bays, *Planet. Space Sci.*, 17, 1795-1802, 1969.
13. Siscoe, G. L., and P. J. Coleman, Jr.: On the north-south asymmetry in the solar wind, *J. Geophys. Res.*, 8, 415, 1969.
14. Siscoe, G. L., E. F. Lyon, J. H. Binsack, and H. S. Bridge: Experimental evidence for a detached lunar compression wave, *J. Geophys. Res.*, 74, 59, 1969.

15. Siscoe, G. L., J. M. Turner and A. J. Lazarus: Simultaneous plasma and magnetic field measurements of probable tangential discontinuities in the solar wind, *Solar Phys.*, 6, 456, 1969.
16. Carovillano, R. L., and G. L. Siscoe: Corotating structure in the solar wind, *Solar Phys.*, 8, 401, 1969.
17. Siscoe, G. L., B. Goldstein and A. J. Lazarus: An east-west asymmetry in the solar wind velocity, *J. Geophys. Res.*, 74, 1759, 1969.
18. Siscoe, G. L.: An application of the virial theorem to magnetospheric dynamics, *J. Geophys. Res.*, 75, 5340, 1970.
19. Siscoe, G. L., F. L. Scarf, D. S. Intriligator, J. H. Wolfe, J. H. Binsack, H. S. Bridge, and V. M. Vasyliunas: Evidence for a geomagnetic wake at 500 Re, *J. Geophys. Res.*, 75, 5319, 1970.
20. Siscoe, G. L.: Fluid dynamics of thin solar wind filaments, *Solar Phys.*, 13, 490, 1970.
21. Siscoe, G. L.: The solar wind problem with fluctuations, *Cosmic Electrodyn.*, 1, 51, 1970.
22. Siscoe, G. L., and L. T. Finley: Solar wind structure determined by corotating coronal inhomogeneities, 1. Velocity driven perturbations, *J. Geophys. Res.*, 75, 1817, 1970.
23. Schieldge, J. P., and G. L. Siscoe: A correlation of the occurrence of simultaneous sudden magnetospheric compressions and geomagnetic bay onsets with selected geophysical indices, *J. Atmos. Terr. Phys.*, 32, 1819, 1970.
24. Scarf, F. L., I. M. Green, G. L. Siscoe, D. S. Intriligator, D. D. McKibbin and J. H. Wolfe: Pioneer 8 electric field measurements in the distant geomagnetic tail, *J. Geophys. Res.*, 75, 3167, 1970.
25. Crooker, N. U., and G. L. Siscoe: A study of the geomagnetic disturbance field asymmetry, *Radio Sci.*, 6, 495, 1971.
26. Scarf, F. L., and G. L. Siscoe: The Pioneer 9 electric field experiment: Part 2, observations between 0.75 and 1.0 AU, *Cosmic Electrodyn.*, 2, 44, 1971.
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29. Siscoe, G. L., and Z. Levin: Interaction of water drops with surface waves, *J. Geophys. Res.*, 76, 5112, 1971.
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35. Siscoe, G. L.: Structure and orientation of solar wind interaction fronts: Pioneer 6, *J. Geophys. Res.*, 77, 27, 1972.
36. Siscoe, G. L., and R. W. Suey: Significance criteria for variance matrix applications, *J. Geophys. Res.*, 77, 1321, 1972.
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39. Siscoe, G. L., and N. R. Mukherjee: Upper limits on the lunar atmosphere determined from solar wind measurements, *J. Geophys. Res.*, 77, 6042, 1972.

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42. Howe, H. C., and G. L. Siscoe: Magnetopause motions at lunar distance determined from the Explorer 35 plasma experiment, *J. Geophys. Res.*, 77, 6071, 1972.
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104. Bagenal, F., J. D. Sullivan, and G. L. Siscoe: Spatial distribution of plasma in the Io torus, *Geophys. Res. Lett.*, 7, 41-44, 1980.
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106. Siscoe, G. L.: Evidence in the Auroral Record for Secular Solar Variability, *Rev. Geophys.*, 18, 647-658, 1980.
107. Siscoe, G. L.: What's in the name 'magnetospheric substorm'? , *J. Geophys. Res.*, 85, 1643-1644, 1980.
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109. Russell, C. T., G. L. Siscoe, and E. J. Smith: Comparison of ISEE-1 and -3 interplanetary magnetic field observations, *Geophys. Res. Lett.*, 7, 381-389, 1980.
110. Eviatar, A., and G. L. Siscoe: Limit on rotational energy available to excite Jovian aurora, *Geophys. Res. Lett.*, 7, 1085-1088, 1980.
111. Crooker, N. U., and G. L. Siscoe: Birkeland currents as the cause of the low- latitude asymmetric disturbance field, *J. Geophys. Res.*, 86, 11,201-11,210, 1981.
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113. Siscoe, G. L., and D. Summers: Centrifugally driven diffusion of Iogenic plasma, *J. Geophys. Res.*, 86, 8471-8479, 1981.

114. Siscoe, G. L., A. Eviatar, R. M. Thorne, J. D. Richardson, F. Bagenal, and J. D. Sullivan: Ring current impoundment of the Io plasma torus, *J. Geophys. Res.*, **86**, 8480-8484, 1981.
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